Operating manual **English**

UFT 676sw

DVB-T receiver

KATHREIN
Antennen · Electronic

PREFACE

Dear customer,

this operating manual is intended to help you make the fullest use of the extensive range of functions offered by your new DVB-T receiver.

We have tried to make the operating instructions as easy as possible to understand, and to keep them as concise as possible. To help you understand particular specialist terms that cannot be translated, we have added a short glossary at the end of the manual.

The power switch is an environmentally friendly feature. If you will not be using your receiver for an extended period, you should use the power switch to disconnect it from the power supply and save energy. For shorter breaks, you can use the remote control to switch the receiver to standby, which uses only a minimal amount of energy.

We wish you good reception and much pleasure using your new DVB-T receiver.

Your
KATHREIN team

IMPORTANT INFORMATION

The channels available are subject to continual change. Accordingly it is necessary to update the channel presets when changes are made. The information for this update can be found on the Internet or in relevant magazines.

Your receiver was equipped in the factory with the latest software version at that time. We are, however, constantly working on adapting the software to the wishes of our customers and to developments in technology. The “Service Menu” section provides more information on this.

The information in this operating manual was correct at the time of going to print. We reserve the right however to make changes at any time and without prior notice. If new software is released for your receiver, and this affects the information in the operating manual (e.g. changes to the menus and/or functions), if we believe it necessary we will make available a new operating manual for download under “www.kathrein.de”.

Please keep the original packaging in case you need to return the product at any time! If the product is not properly packed, the warranty claim is invalidated.

Make a note of the receiver's basic settings (these are set during the first installation), so you can restore them if necessary!

Before you switch off the receiver using the power switch, you must switch the remote control into stand-by mode by pressing the stand-by button. In stand-by mode, any changed data that is broadcast will be saved by the receiver. Once the receiver is in standby mode it can be fully switched off at any time at the power switch at the front of the unit. **Do not switch the receiver off at the power switch when it is in operating mode! This can lead to a loss of data and corruption of the software.**

The receiver satisfies the latest European Energy-using Products Directive (EUP) and, taken by itself, has a power consumption in operation of just 5 W (when not supplying an active DVB-T antenna). On the rear of the device the power consumption is stated as 6 W. Generally this will not be achieved, but it may occur in the worst case.

INFORMATION ON AUDIO MPEG INC. AND S.I.SV.EL, S.P.A:

This unit makes use of legally protected technologies, which are protected by patents in the USA and also by other intellectual property rights in other countries. KATHREIN-Werke KG has obtained licences from Audio MPEG Inc. and Societa‘ Italiana per lo sviluppo dell‘elettronica, S.I.SV.EL, S.P.A to use these technologies. These licences carry certain restrictions, which apply also to you as the customer. Accordingly this unit may only be used by the end customer for private non-commercial purposes and for the licensed content. It may not be used for commercial purposes. The use of products or processes that are sold or used with this unit is not included in this statement. The use of reverse engineering is not permitted in respect of the licensed technologies, nor is disassembly.

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HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

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SAFETY INSTRUCTIONS - IMPORTANT INFORMATION

These two pages contain important information about operation, installation location and connection of the unit. Read these instructions carefully before setting up the unit.

Danger!

Mains cable

Make sure that the mains cable (power supply cable) is not damaged. Units with a damaged mains cable must be disconnected from the mains (unplug it at the socket) and repaired by an electrical specialist before setup. Only use the power pack supplied (if available)!

Risk of fatal injury due to electric shock!

Cleaning

Disconnect the mains plug before cleaning the unit. Only use a dry cloth for cleaning and only clean the outer surface. Never open the casing of the unit.

Touching the parts inside the unit carries a risk of death due to electric shock!

Playing children

Make sure that children do not push any objects into the ventilation slots.

Risk of fatal injury due to electric shock!

Warning!

Earthing

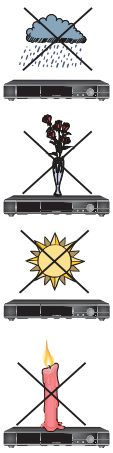
The antenna system must be earthed as specified or equipotentially bonded.
EN 60728/11 and any national regulations must be complied with.

Risk of voltage surges due to lightning strikes!

Power supply voltage

Only operate the unit at the specified mains voltage (indicated on the rear of the unit or on the external power pack). The unit may only be connected to the mains and turned on once it has been connected to the antenna and to the TV set or the cable network and PC.

If the mains voltage is too high, there is a risk of fire!



Moisture, direct sunlight, heat, naked flames

Protect the unit against moisture, dripping and splashed water (do not place any filled objects such as vases on top of the unit). Do not place the unit close to a heater or expose it to direct sunlight and do not operate it in damp locations. Only use the unit in a moderate climate, not in tropical conditions! Place no naked flames such as candles on top of the unit!

There is a risk of fire!

Batteries

If your unit was supplied with batteries (e.g. for the remote control), take care that the batteries are not exposed to excessively high temperatures, direct sunshine or fire. Exchange the batteries only with types that are identical or equivalent. Otherwise the batteries and also the remote control may be damaged. Comply also with the safety instructions stated on the batteries:

There is a risk of explosions!

Warning!

Warning!

Ventilation

The heat generated in this unit is adequately dissipated. However, the unit should never be installed in a cupboard or on shelves with inadequate ventilation. Never cover the cooling slots on the unit (e.g. with other equipment, magazines, tablecloths, clothing or curtains).

Do not cover

→

SAFETY INSTRUCTIONS - IMPORTANT INFORMATION

Do not place any objects on top of the unit. Unless stated to the contrary in the “Connection and Set-Up” and “Installation” sections in the manual supplied, maintain a clearance of at least 10 cm above the unit, 2 cm to either side and 5 cm behind the unit, to allow unobstructed dissipation of the heat generated.

There is a risk of fire!

Important!

Repairs

Ensure that any repairs to your unit are carried out by qualified personnel. Opening the unit and attempting to repair it yourself voids all warranty claims!
Improper work on the unit may jeopardise the electrical safety of the unit.

The manufacturer accepts no liability for accidents caused by the user opening the casing of the unit!

Connections

Incorrect wiring of the connections can lead to malfunctions or defects on the unit!

Periods of extended absence, thunderstorms, mains socket accessibility

In order to disconnect the unit from the mains completely, the mains plug must be unplugged from the wall socket! Therefore install the unit close to a mains socket and make sure that socket is accessible at all times, so that you can disconnect the unit from the mains if necessary.
If you are away for an extended period, and during thunderstorms, always switch the unit off at the mains and unplug it from the socket. This also applies to the other equipment connected to the unit. Isolation from the cable network is also recommended. Note any timer programming (receiver) and turn the unit on again promptly before the recording time.

Installation location

All electronic equipment generates heat. However, the heating of this unit lies within the permissible range. Sensitive furniture surfaces and veneers may become discoloured by the effects of constant heat over time. The feet of the unit can also cause colour changes to treated furniture surfaces. If necessary, place the unit on a suitable stable and flat base!

Electronic equipment is not domestic waste - it must be disposed of properly in accordance with directive 2002/96/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL dated 27th January 2003 concerning used electrical and electronic appliances.
At the end of its service life, take this unit for disposal to an appropriate official collection point.

<u>Spent batteries are special waste!</u>
Do not throw spent batteries into your domestic waste; take them to a collection point for spent batteries!

RECEIVER FEATURES/SCOPE OF SUPPLY

The UFT 676sw receiver is suitable for the reception of FTA digital terrestrial TV and radio programmes.

The HDMI interface offers the optimum capability for connecting the receiver to a flat-screen TV set. The built-in up-scaler processes the picture optimally for flat-screen TV sets.

Features are for instance: Kathrein EPG, guided first installation with country setting, electric audio output for Dolby Digital (AC 3), a video cinch output and Teletext with an 800-page memory.

It can be used to power an active DVB-T antenna without any additional power supply unit.
The receiver is available in a black housing.

FEATURES

- Reception of FTA digital terrestrial TV and radio programmes
- Typical power consumption in operation 5 W (without active antenna)
- Stand-by power consumption: < 0.5 Watt
- HDMI output for good picture quality on your flat-screen TV set
- Up-scaler for upscaling the Pal signal (576i) to 576p, 720p and 1080i
- 4-character display
- Kathrein EPG with timer programming [1)]
- Guided first installation with country setting
- Sorting by the pre-programmed channel list
- Logical Channel Number function
- Software download via PC (RS 232/RJ 11)
- A total of 8 favourite channel lists for TV and radio
- On-screen display (OSD) in 8 languages (D, GB, F, I, E, CZ, NL, TR)
- 14 timers; conveniently programmable using the EPG
- Language selection for multilingual broadcasts
- Electrical audio output for Dolby Digital data stream (AC 3)
- Scart socket with either FBAS or RGB signal output
- Cinch sockets for AV signal
- Videotext decoder with 800 page memory capacity and Videotext generation (only via Scart)
- Automatic 4:3 and 16:9 format recognition (choice of viewing format)
- Channel search
- Automatic date and time generation via DVB data stream

RECEIVER FEATURES/SCOPE OF SUPPLY

- Programme position sort function
- Tuner with loop-through output
- Power switch [2)]
- 1,000 channel memory positions
- Remote feeding of an active DVB-T antenna (e.g. BZD 30, BZD 40) via the RF input
- Infra-red remote control
- An additional IR sensor can be connected

1) Displayed only if this information is broadcast by the channel provider

2) The unit is not fully disconnected from the mains (see the sections “Safety Instructions - Important Instructions” and “Periods of extended absence, thunderstorms, mains socket accessibility”)

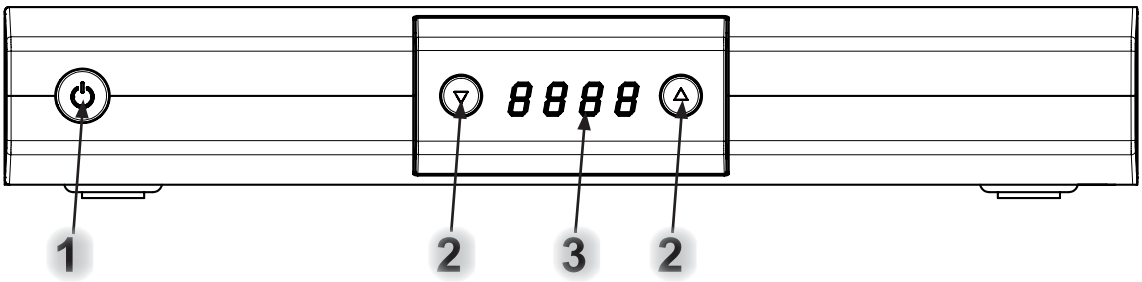
SCOPE OF SUPPLY

- UFT 676sw
- Remote control RC 671
- Scart cable
- 2 batteries AAA 1.5 V
- Operating manual
- Safety Notes

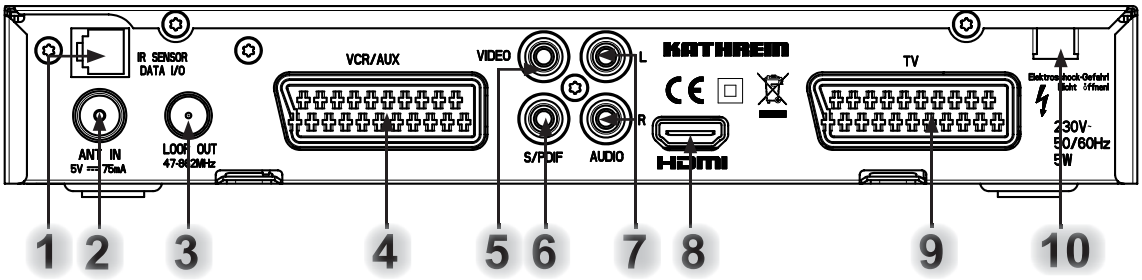
CONTROLS, DISPLAYS AND CONNECTIONS

This section provides a brief description of all the controls, displays and connections.

VIEW OF FRONT PANEL (FLAP REMOVED)



VIEW OF REAR PANEL



Front panel controls and displays

1. On/Off switch [1)]
2. Channel select buttons (▼▲)
3. Display

The serial number sticker for the UFT 676sw is located on the underside of the unit.

The information printed on it includes the following:

- **the exact designation (e.g. UFT 676sw)**
- **the part number and**
- **the serial number of the unit.**

You do not need this information in order to operate the unit. If however, contrary to expectations, you need to make a claim under warranty and you do not have the packaging for the receiver to hand, you can find the above information about the unit on this sticker.

Rear panel controls and displays

1. RJ 11 data interface/connection port for an external IR sensor
2. VHF/UHF input socket
3. VHF/UHF loop-through output
4. Scart socket for VCR/AUX connection
5. Video output (composite colour)
6. Electrical digital data stream output (SPDIF/Sony Philips Digital Interface Format) for Dolby Digital AC 3 audio
7. Audio outputs (L/R) cinch sockets
8. HDMI Output
9. Scart socket for TV connection
10. Mains power cable

[1)] The unit is not fully disconnected from the mains (see the sections “Safety Instructions - Important Instructions” and “Periods of extended absence, thunderstorms, mains socket accessibility”)

CONNECTION AND SETUP

The following section is intended specifically for specialist dealers. You need not refer to this section unless you are carrying out the installation yourself.

The “Connection examples” section provides a sample configuration.
Do not connect the receiver to the power supply until all installation work has been properly carried out. Refer to the information in the “Safety instructions” section.

CONNECTING THE UNIT (ANTENNA CONNECTION)

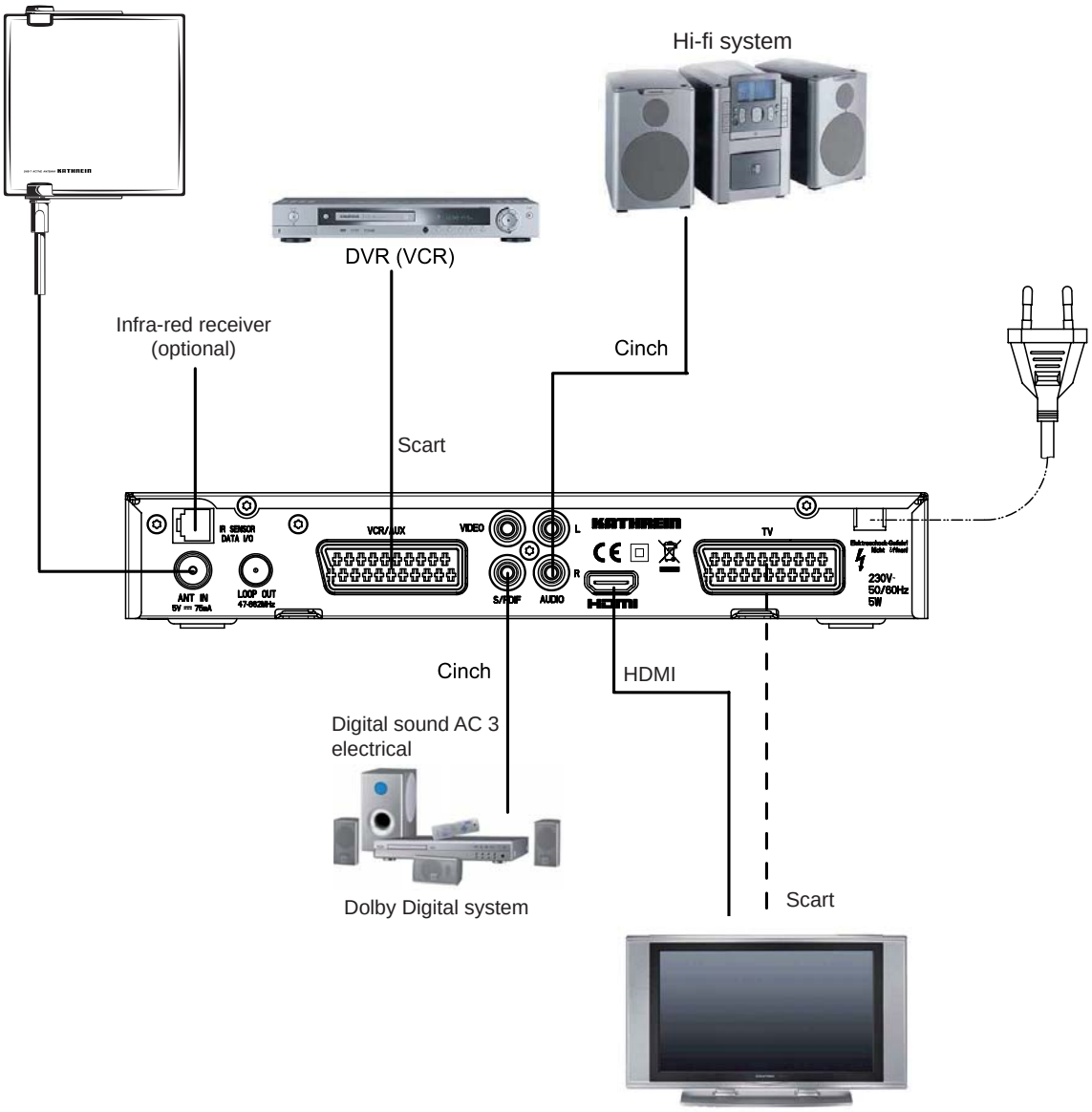
DVB-T TV was developed to enable you to receive a good quality TV picture anywhere, provided the signal is strong enough. Connect the receiver either to your conventional stand-alone or community antenna through which you receive all VHF/UHF signals, or use an antenna developed for DVB-T (such as the Kathrein BZD 30 for direct reception indoors or the BZD 40 for outdoors). The receiver is connected to the antenna via the VHF/UHF input socket

DVB-T TV cannot work miracles however; you must be receiving a good quality signal. You may encounter problems in concrete buildings if you are using only an indoor antenna.

If you are using (or have to use) an active antenna - that is, an antenna with a pre-amplifier, you can power it from the receiver's antenna input. The default setting in the receiver is “Off”, to prevent any damage from occurring. Be sure to use an antenna designed for a 5 Volt supply (such as the Kathrein BZD 30).

CONNECTION AND SETUP

CONNECTION EXAMPLE



CONNECTION AND SETUP

TV AND VCR CONNECTION

Connect the DVB-T receiver (HDMI or alternatively TV Scart socket) and the TV set using a HDMI or Scart cable (see “Connection example”). If your TV is stereo, you can receive the sound in stereo via the HDMI or Scart connection. For system reasons, the same video signals are present at both the TV Scart socket and also the video cinch output.
Use a further Scart cable to connect the DVB-T receiver (VCR Scart socket) to the video recorder/DVR.

If you are recording using an external video recorder, remember not to operate the receiver during recording, otherwise all the on-screen displays will appear on your recording.

AUDIO CONNECTION

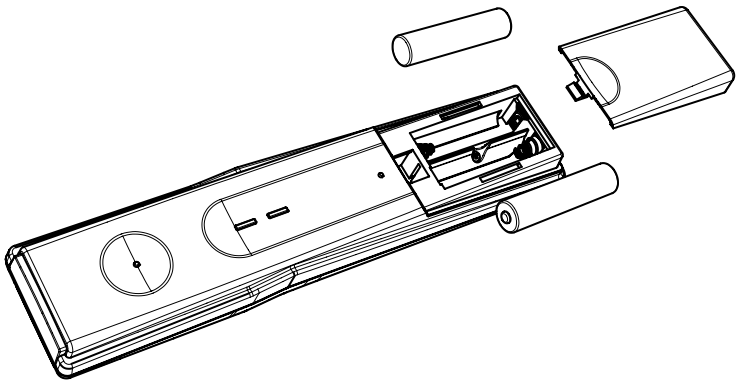
If you want to play the sound on your hi-fi system, connect the audio cinch sockets to the input sockets on the hi-fi system, using an appropriate cable (see “Connection example”).

ELECTRICAL DIGITAL OUTPUT

The electric digital output is intended for the connection of a Dolby Digital system (see “Connection example”).

INSERTING BATTERIES INTO THE REMOTE CONTROL

Remove the cover on the rear of the remote control.
Insert the two batteries supplied into the remote control. Ensure correct polarity of the batteries; the + and – markings are indicated inside the battery compartment.
Slide the cover back into the housing until it locks in place.



REMOTE CONTROL

Numeric input for channels, timers etc.

Open the main menu, leave the menu and return to the TV picture

Volume

Sound on/off

FAV (red)
Call up favourites selection

PIP (green)
"Current" view in the EPG

Open EPG (Electronic Programme Guide)

Leave the menu step by step

Change channel in the programme preview (EPG)

(red)
Record in EPG, edit in channel list

Currently not used

Power on/stand-by

Videotext (Teletext)

Access Channel Notification/Info

Channel selection up/down

OPT (yellow)
Open channel options sound/subtitles selection

TV/R (blue)
Switch between TV/radio

Cursor buttons

Confirm entry open channel list

Change channel in the programme preview (EPG)

Stop recording

AV mode

The button symbols shown here can also be found in the description of the operating steps.

FIRST INSTALLATION

Before using your receiver for the rst time, read the "Safety Instructions" and "Connection and Setup" sections.

The "Connection examples" section provides a sample con guration.

Do not connect the receiver to the power supply until all installation work has been properly carried out.

The guidance given in the "First Installation" section assumes that the receiver has been properly connected as per the "Safety Instructions" and "Connection and Set-Up" sections.

First switch your TV set on and select the AV channel slot. Switch on your receiver at the power switch at the front of the unit. The following display appears:

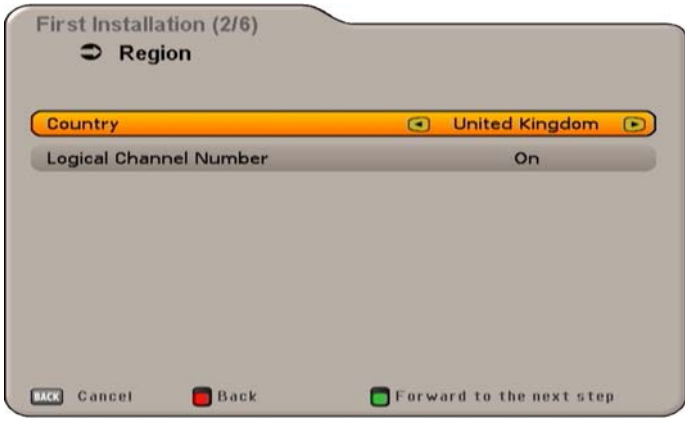
Also note the bars at the bottom of the on-screen display! These provide information on what to do next.

Select the menu language you want using the ▲▼ buttons. Available options: German, English, French, Italian, Spanish, Czech, Dutch and Turkish.

Press the PIP (green) button to move to the next menu.

Note: *If you are unsure whether you chose the right option from a previous menu, you can go back a step at any time during the first installation process by pressing the FAV (red) button.*

The following display appears:

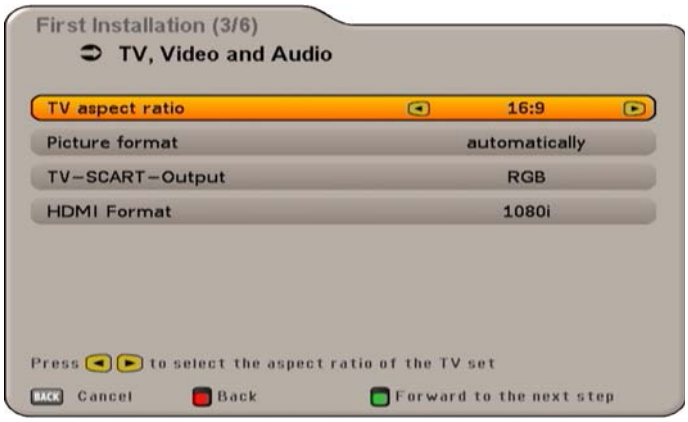


Use the ◄ ► buttons here to select your country.

Press the ▲ ▼ buttons to access the next line.

Use the ◄ ► buttons here to select whether the channels that are found later during the channel search at first installation should be sorted in accordance with the channel list saved for the country selected earlier (selection “On”). In the setting “Off” is selected, the channels will be sorted in the order they are found during the channel search. Press the PIP (green) button to move to the next menu.

The following display appears:



Use the buttons here to select the settings for your TV set.

When doing this, refer to the operating instructions for your TV set!

TV aspect ratio
Here you can select the TV picture format. Either

4:3 or
16:9

Picture format
Here you can select the type of screen display, depending on the setting of your TV format:

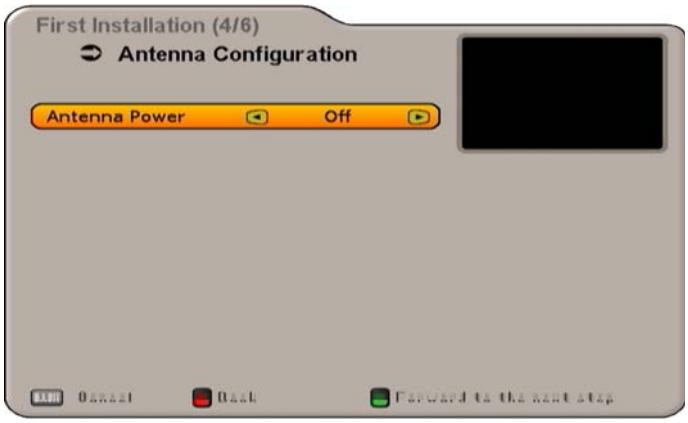
- TV aspect ratio “4:3”: Pan & Scan or Letterbox
- TV aspect ratio “16:9”: automatically or always 16:9

TV-SCART-Output
Select the type of video signal at the TV Scart socket here. Select the signal that your TV set can process.

- FBAS - composite colour signal (colour/picture/blanking/synchronous signal) or
- RGB - Red/Green/Blue signal

HDMI Format
Here please select the format (resolution) that will be output at the HDMI socket. Select the resolution appropriate to your TV set.
Available options: Auto (automatic format choice), 576p, 720p or 1080i

Press the PIP (green) button to move to the next menu. The following display appears:



Antenna Power

Using the ◄ ► buttons, select whether the DVB-T antenna should be supplied with power from the receiver (select “On”) or the DVB-T antenna has its own dedicated power supply (select “Off”).

Press the PIP (green) button to open the next menu:

Execute Channel search

Use the ◄► buttons to select (Yes or No) whether you wish to start a channel search.

If you selected “No”, you can press the PIP (green) button to skip directly to the next item of the first installation.

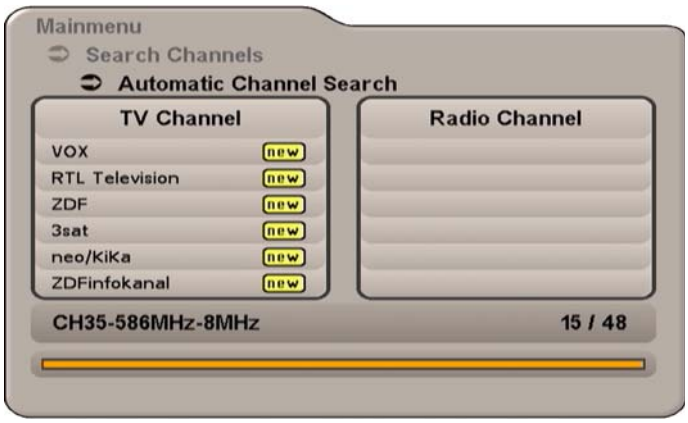
If you selected “Yes”, you can press the ▼ button to progress to the next selection item.

Channel Search Mode

Use the ◄► buttons to select whether you wish to search “free & scrambled”, “only free” or “only scrambled” channels.

The UFT 676 does not allow encrypted channels to be viewed, because no Common Interface is fitted for insertion of the necessary CA modules and smart cards.

Press the PIP (green) button to start the channel search, or if you set channel search to “Off” you are guided straight to the next item in the first installation process.
During the channel search you will see the following message (example):



When the search has been completed, you will see the following message (example):

Use the OK button to move to the next step of the first installation. The following display appears:

Local time offset

Use the ◄ ► buttons to set the local time offset from UTC (formerly GMT) (e.g. for Germany +1 hour).

Use the ▲ ▼ buttons to switch to the “Automatic clock change” field. Use the ◄ ► buttons to select whether the receiver should automatically change over to and from summer and winter time. If “On” is selected, the receiver automatically sets itself to the right time. If “Off” is selected, the field for manual selection of summer and winter time is displayed below. The ◄ ► buttons are also used to perform the setting.

Press the PIP (green) button to close First Installation and return to the TV picture.

MENU CONCEPT

The structure of the menu concept is based on logical operating sequences. The programme showing on the current selected channel always appears in the top right-hand corner of the screen.

You will find detailed descriptions of the selected menu items in the relevant sections of the operating manual!

Note: *The selected menus, sub-menus and positions, as well as the parameters to be set, are each highlighted in colour. The menus are self-explanatory.*

Note the bar at the bottom of the on-screen display! These provide information on what to do next.

Press the MENU button to open the main menu, and use the ▲ ▼ buttons to select the sub-menus.

Press the OK button to access the sub-menus. Use the ▲ ▼ buttons to select the sub-menu options.

The settings under the various options are made either by pressing the ◄ ► buttons or using the numeric pad. You can exit the main menu and sub-menus and the various options step-by-step by pressing the BACK button (the settings/changes you made are saved). Press MENU to return directly from one of the menus to the TV picture (the settings/changes you made are saved).

MENU OVERVIEW

Mainmenu

Open the menu by pressing the MENU button

ALPHANUMERIC INPUTS

Use the displayed keypad (see figure to the right) for entry of favourites names or search expressions by selecting numerals for the desired letters/digits. You can write with upper or lower case letters (MENU button). Use the numeric pad to select the desired character. About two seconds after selection of the character, the cursor moves automatically to the next position.

The ◄ button allows you to delete your entry character by character.

When you have selected all the characters, press the OK button to “save” your entry and start a search to find the desired expression.

LANGUAGE SETTING - OSD

The language for the on-screen display is set as follows:

MENU → ▲ ▼ → Language setting → OK → ▲ ▼ English → OK

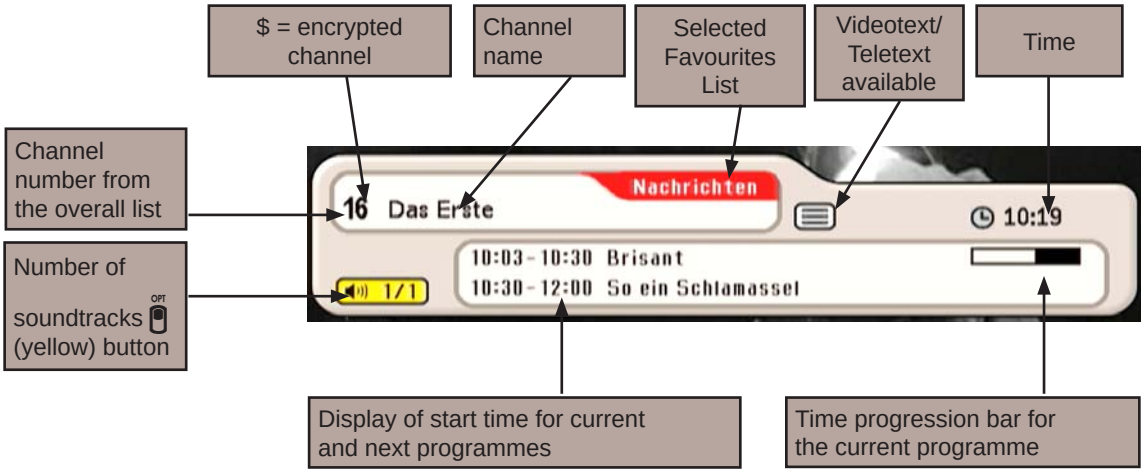
Available options: German, English, Italian, French, Dutch, Spanish, Czech and Turkish.

After you have performed the settings, press the MENU or BACK button to exit the main menu. You will then return to the TV picture.

ON-SCREEN DISPLAYS (OSD)

CHANNEL MESSAGES

TV CHANNEL MESSAGES



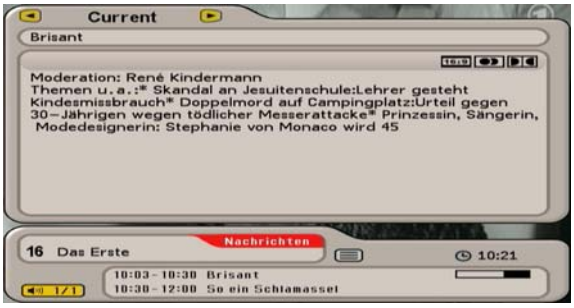
Channel information is shown for a few seconds each time the channel is changed (this can be changed under “Settings”, “Suit screen menu”) or displayed continuously by pressing the [i] button.

RADIO CHANNEL MESSAGES

The information for the current radio channel has the same layout.

CHANNEL INFORMATION

Press [i] twice to view information on the current channel, if transmitted by the channel provider. Use the [▲][▼] buttons to scroll through the pages. By pressing the [◄][►] buttons you can obtain information on the programmes to come on the current channel. Press the [i] or [EXIT] button to exit the display.


Current
Brisant
Moderation: René Kindermann
Themen u.a.:* Skandal an Jesuitenschule:Lehrer gesteht Kindesmissbrauch* Doppelmord auf Campingplatz:Urteil gegen 30-Jährigen wegen tödlicher Messerattacke* Prinzessin, Sängerin, Modedesignerin: Stephanie von Monaco wird 45
16 Das Erste
Nachrichten
10:21
10:03-10:30 Brisant
10:30-12:00 So ein Schlamassel
1/1

CALLING UP THE OPTIONS CHANNEL

If the channel OSD contains the following icon 1/3, this is a portal channel. Press the [OPT] (yellow) button to display the channels available on this portal (such as matches played on a specific day). In this example three “sub-channels” are available for selection within this portal channel. Select the channels using the [▲][▼] buttons and [OK]. You can also however select the sub-channels of a portal channel directly using the [▲][▼] buttons, without having previously pressed the [OPT] (yellow) button.

ON-SCREEN DISPLAYS (OSD)

OPTION SELECTION

Press the OPT (yellow) button once (twice for portal channels) to view further audio selection options, if these are transmitted by the channel provider. Use the ▲ ▼ buttons to scroll through the available selection options. Press the OPT (yellow) button again, or press the BACK button to exit this display again.

ERROR REPORTING

“Weak or no signal” indicates that an error has occurred in the reception system or in the receiver settings.

Check the antenna connection and your receiver settings. If you have changed settings, compare them against the basic settings (provided you had made a note of them as suggested).

CHANNEL LIST - TV/RADIO

Also note the bars at the bottom of the on-screen display! These provide information on what to do next.

Press the OK button to access the channel list.

When you open this list the channel list selection/sort order is displayed from where you selected the last channel.
At the top left you will see the selected channel list (TV Channel or Radio Channel) displayed.

Press the TV/R (blue) button to switch between the TV and radio channel lists.

ON-SCREEN DISPLAYS (OSD)

Underneath you can see the channel list with the sort order you selected.
The channel list can display channels sorted by various selection and sorting criteria.

Selection and sorting options:

- Press the FAV (red) button to open the favourites list selection. The ◄◄ ►► buttons allow you to scroll through the existing favourites lists
- Press the PIP (green) button to return to the overall list. The ◄◄ ►► buttons allow you to choose between the overall list and the “New channels” list (generated by a channel search)
- Press the OPT (yellow) button to see an alphabetic listing. This list displays all the channels sorted alphabetically, or the ones beginning with the selected initial letter. Use the ◄◄ ►► buttons to make the selection.

Search function:

- Press the TEXT button to start the search. The numeric pad buttons allow you to input the desired search expression for the channel that is sought (see also “Operating instructions”, “Alphanumeric input”). Press the OK button to start the search.

Press i to view the following items of information on a channel (see screenshot on the right as an example):

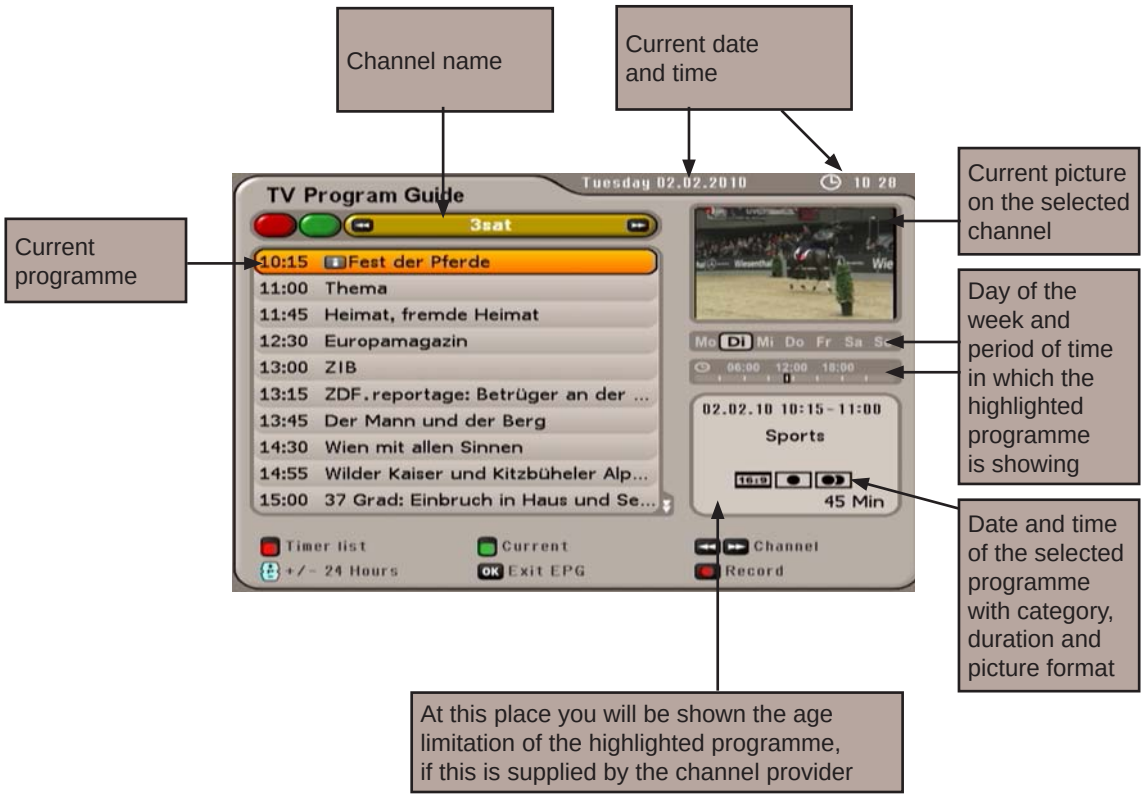
- Signal-Strength
- Signal-Quality
- Provider
- Frequency (MHz)
- Bandwidth (MHz)

The cursor buttons (✥) are used to navigate within the respective channel list view to select the desired channel. The selection of the desired channel is confirmed by pressing the OK button. You will now hear and see the currently selected channel in the small window at the top right. To exit the channel list and return to the TV picture, press the OK button again, or press the BACK button.

EPG - ELECTRONIC PROGRAMME GUIDE

CALLING UP THE EPG

The EPG is opened by pressing the EPG button. Each time the EPG is opened, you will automatically be shown the “Preview” view, irrespective of which view you were shown the last time you left the EPG. The following display appears (example):


Channel name
Current date and time
Current programme
Current picture on the selected channel
Day of the week and period of time in which the highlighted programme is showing
Date and time of the selected programme with category, duration and picture format
At this place you will be shown the age limitation of the highlighted programme, if this is supplied by the channel provider
TV Program Guide
Tuesday 02.02.2010
10 20
3sat
10:15 Fest der Pferde
11:00 Thema
11:45 Heimat, fremde Heimat
12:30 Europamagazin
13:00 ZIB
13:15 ZDF.reportage: Betrüger an der ...
13:45 Der Mann und der Berg
14:30 Wien mit allen Sinnen
14:55 Wilder Kaiser und Kitzbüheler Alp...
15:00 37 Grad: Einbruch in Haus und Se...
Mo Di Mi Do Fr Sa S
06:00 12:00 18:00
02.02.10 10:15 - 11:00
Sports
16:9
45 Min
Timer list
Current
Channel
+/- 24 Hours
OK Exit EPG
Record

Note: *If you selected a favourites list before opening the EPG, you will see in the EPG only the data for the channels that are included in this favourites list.*

EPG - ELECTRONIC PROGRAMME GUIDE

Selection options:

- FAV (red) button	Open the Plan recording (display of all pre-programmed recordings)
- OPT (yellow) button	Call up the “Preview” view
- PIP (green) button	Call up the “Current” view
- ◄◄ ►► button	Change the channel from within the “EPG” view
- ►► button	Next programme in the “Current” view
- + P - button	(P+) skip forwards 24 hours in the EPG, (P-) skip backwards 24 hours
- OK button	Select the currently selected channel in all views. Pressing the OK or the BACK button again closes the EPG and the selected channel is shown again on the TV screen
- ● (red dot) button	Add a programme to the recording settings
- i button	Shows any further information on the selected programme

Navigation within each view is always performed using the cursor buttons ( ). The ▲ ▼ buttons allow you to select individual channels/programmes, and the ◄ ► buttons allow you to scroll from page to page of the currently selected list.

Pressing the EPG or BACK button exits the EPG and returns to the TV picture.

You will see information on the current or next following programmes in the EPG only if it is supplied by the channel provider.

“CURRENT” VIEW

The “Current” view can be called up at any time in EPG by pressing the PIP (green) button.

In the “Current” view you can see all channels displayed in the order of the overall channel list. Provided that EPG data has been supplied by the channel provider, the receiver shows for each channel the current program being shown, with start time, finish time, and progression bar.

You can use the cursor buttons ( ) to select the desired programme and if available you can use the i button to call up further information on the desired programme.

EPG - ELECTRONIC PROGRAMME GUIDE

Pressing the ►► button displays the next programme (“Next” view); pressing the ◄◄ button returns you to the “Current” view.

If you wish to view the programme currently being shown on a channel, you need not exit the EPG, just select the desired channel, using the cursor buttons (✣). At the top right of the screen you will see the current TV picture for the selected channel.

“PREVIEW” VIEW (PROGRAMME LISTINGS)

The “Preview” view (programme listings) can be called up at any time in EPG by pressing the OPT (yellow) button.

Also note the bars at the bottom of the on-screen display! These provide information on what to do next.

In the “Preview” view you will see all the programmes that will be shown in the previous “Current” list of selected channels. Provided that EPG data has been supplied by the channel provider, the receiver displays the programmes that will be shown on the selected channel for several days in advance.

You can use the cursor buttons (✣) to select the desired programme and, if available, you can use the i button to open further information on the desired programme.

Using the ◄◄ ►► buttons you can scroll through the channels in their sequence in the overall channel list. You remain however within the “Preview” view at all times.

The +/- button allows you to scroll backwards and forwards a day at a time.

Using the ● (red dot) button you can copy the selected programme to the recording settings (see “Recording” chapter).

EPG - ELECTRONIC PROGRAMME GUIDE

ADDITIONAL INFORMATION (i BUTTON)

The additional information can always be called up by pressing the [i] button whenever the “i symbol” appears in front of the programme name (see screenshot on the right). First however the channel must be selected. The following display appears (example):

TV Program Guide
3sat
Tue 10.02.02
3sat
10:15 - 11:00
Fest der Pferde
Sports
Bereits zum 24. Mal fand im November 2009 in Wien das traditionelle Reitsportereignis statt, an dem Reiter aus aller Welt teilnahmen. Springen und Dressur standen auf der Tagesordnung, dazu ein internationales Showprogramm der Superlative. 3sat zeigt die Highlights vom Fest der Pferde 2009.
Previous/Following event
Det.inform.
Exit
Record

The additional information available for a programme is displayed in its own window. By pressing the [▼] button, if available, you can open further additional information on the selected programme.

The [◄][►] buttons enable you to display the additional information for the preceding or following programmes in the order of the previously selected list (see header). This feature always assumes that the data has been supplied by the channel provider.

Using the [●] (red dot) button you can copy the selected programme to the recording settings (see “Recording” chapter).

Press the [i] or [BACK] button to drop the additional information.

EPG - ELECTRONIC PROGRAMME GUIDE

RECORDING (TIMER)

The ● (red dot) button allows you to set up a programme at any time for recording on an external recorder. The programme to be recorded can be selected in any of the EPG views, provided the ● (red dot) button appears at the bottom of the screen display.

Programme appears in EPG:

Select the desired programme and press the ● (red dot) button. The following display appears (see example picture below):

If the programme does <u>not</u> appear on the EPG:
Select any programme on the channel on which the desired programme is to be transmitted at a later time and press the ● (red dot) button (starting and finishing times together with the recording date must be input manually).

Remember to programme your external recorder in accordance with the recording list programmed in the receiver.

Use the ◄► buttons to select the desired recording mode. The following recording mode options are available:

- **once:** The recording will be performed once
- **daily:** The recording will be performed daily at a time specified by you
- **weekly:** The recording will be performed once a week on the same day and at the same time

Use the cursor buttons (✣) to select the further items and use the keypad to complete the settings. When all settings have been made, press the OK button to save the recording settings. You can view the scheduled recordings in the plan recording view of the EPG (see “Plan recording” chapter).

EPG - ELECTRONIC PROGRAMME GUIDE

RECORDING ONCE

Use the ◄ ► buttons to select the recording mode “once” (see screenshot “Recording (timer)”).

Use the ▲ ▼ buttons to switch to the “Date” field and use the ◄ ► buttons to select the desired recording day.

Use the ▲ ▼ buttons to switch to the selection field “Start” and use the ◄ ► buttons or the numeric pad buttons to select the desired recording start time.

Use the ▲ ▼ buttons to switch to the selection field “Duration” and use the ◄ ► buttons or the numeric pad buttons to select the desired recording length.

When all settings have been made, press the OK button to save the recording settings. You can view the scheduled recording in the Plan recording view of the EPG (see section “Plan recording”).

RECORDING DAILY

Use the ◄ ► buttons to select the “daily” recording mode (see screenshot on the right).

Use the ▲ ▼ buttons to switch to the selection field “Start” and use the ◄ ► buttons or the numeric pad buttons to select the desired recording start time.

Use the ▲ ▼ buttons to switch to the selection field “Duration” and use the ◄ ► buttons or the numeric pad buttons to select the desired recording length.

When all settings have been made, press the OK button to save the recording settings. You can view the scheduled recording in the Plan recording view of the EPG (see section “Plan recording”).

EPG - ELECTRONIC PROGRAMME GUIDE

RECORDING WEEKLY

Remember that the day of the week for the desired programme is loaded in the recording list and you can make no further manual corrections to it! Therefore before pressing the ● (red dot) button, select the programme on the day of the week that in future you will wish to make the weekly recording.

Use the ◄ ► buttons to select the recording mode “weekly” (see screenshot below).

Use the ▲ ▼ buttons to switch to the selection field “Start” and use the ◄ ► buttons or the numeric pad buttons to select the desired recording start time.

Use the ▲ ▼ buttons to switch to the selection field “Duration” and use the ◄ ► buttons or the numeric pad buttons to select the desired recording length.

When all settings have been made, press the OK button to save the recording settings. You can view the scheduled recording in the Plan recording view of the EPG (see section “Plan recording”).

EPG - ELECTRONIC PROGRAMME GUIDE

PLAN RECORDING VIEW

The Plan recording view can be called up at any time in EPG by pressing the FAV (red) button.

The Plan recording view shows you all the recordings that are scheduled.

The ◄◄ ►► buttons allow the recordings to be sorted into “once” or “repeated” recordings.

The cursor buttons (✣) allow you to select a recording.

The ● (red dot) button allows you to delete a recording that had been scheduled.

VIDEOTEXT (TELETEXT)

This symbol in the channel information shows you whether Teletext is available for the selected channel.

When you press the TEXT button, the receiver processes the videotext/Teletext service data for your TV set to display, even when the signal is encrypted.

When the search is finished, the Teletext being broadcast by the relevant encrypted provider appears:

You have several options for opening the desired pages:

- Input with numeric pad
- Scroll backwards and forwards using the ▲ ▼ buttons
- Sub-pages (e.g. 1/2, 2/2) can be selected using the ◄◄ ►► buttons
- Selection of the options listed across the bottom of the screen by pressing the respective coloured button FAV (red), PIP (green), OPT (yellow) or TV/R (blue)

Press BACK or TEXT to exit Teletext.

EDIT CHANNEL LIST

Select the “Edit TV Channellist” menu using the MENU button, the ▲▼ buttons on the main menu and OK.

Also note the bars at the bottom of the on-screen display! These provide information on what to do next.

When the menu is opened, the standard setting is for the receiver to show the channel list with all channels available (overall list).

SELECTION OF THE LIST/CHANNELS TO BE EDITED

Press the TV/R (blue) button to switch between the TV and radio channel lists. Radio channels are edited in the same way as TV channels.

Editing favourite lists is explained as a separate item.

Selection options:

- TV/R (blue) button — Switch between radio and TV channels
- PIP (green) button — Calling up the overall list
- OPT (yellow) button — Open the channel lists, sorted alphabetically
- TEXT button — Search for a specific channel (input the search expression using the numeric pad on the remote control, see also the sections “Operating Instructions” “Alphanumeric Entries”)

The channel list chosen is generally that sorted by categories (overall, favourites and alphabetic) using the ◄◄ ►► buttons (the standard list shown on calling up is the “Overall” channel list). Selection of channels in the list is performed using the cursor buttons (✣). The ▲▼ buttons allow you to select individual channels, and the ◄► buttons allow you to scroll from page to page of the currently selected list.

EDIT CHANNEL LIST

EDITING LISTS/CHANNELS

When you have selected the channel or channel list to be edited, press the ● (red dot) button to open the edit menu. You have the following edit options:

- **Move:**
  Channel can be moved within the current list to another channel slot
- **Delete:**
  Delete the channel from the current list
- **Skip:**
  Channel will be skipped when zapping through the channels
- **Lock:**
  Channel can be viewed only by entering a PIN
- **To Favorite:**
  A channel can be assigned to any favourites list
- **Start Blockselection:**
  Several channels can be selected at the same time and edited together

As soon as you exit the menu under which you made the edit changes, you will be asked if you wish to save the changes. Use the ▲▼ buttons to select either “Yes, save changes” or “No, don't save changes”. Confirm your selection with the OK button.

EDIT CHANNEL LIST

“LAST FUNCTION” MEMORY

The last editing action performed is saved on the ▪ button, so by pressing the ▪ button you can apply the last selection to other channels without having to open the edit menu again. As soon as you leave the current display, this option is cleared and becomes available again only after the edit menu has been opened and an action selected.

MOVE CHANNELS

Use the ▲▼ buttons to select the channel to be moved from the current channel list (use the PIP (green) button to switch to the overall list, use the OPT (yellow) button to switch to the alphabetically sorted list). Press the ● button to open the edit menu and use the ▲▼ buttons to select the “Move” function. Confirm the command by pressing the OK button.
The channel you previously selected will now be shown inset slightly from the left. Now use the cursor buttons (✣) or the number buttons to select the new desired position for the channel, and confirm the new channel slot by pressing the OK button.

DELETE CHANNELS

Use the ▲▼ buttons to select the channel to be deleted from the channel list you have selected. Press the ● button to open the edit menu and use the ▲▼ buttons to select the “Delete” function. Confirm the command by pressing the OK button.

A deleted channel can be recovered only by performing another channel search (see section “Channel Search”)!

The channel you previously selected will be deleted (from the favourite lists also!).

SKIP CHANNELS

Use the ▲▼ buttons to select the channel to be skipped from the current channel list. Press the ● button to open the edit menu and use the ▲▼ buttons to select the “Skip” function. Confirm the command by pressing the OK button.

The channel you previously selected is now shown in grey text. When zapping the channels this channel will in future be skipped and no longer shown in the channel list (called up using the OK button).
This function can be restored again using the edit menu (select: “Unskip”).

EDIT CHANNEL LIST

LOCK CHANNELS

Use the ▲▼ buttons to select the channel to be locked from the channel list you have selected. Press the ● button to open the edit menu and use the ▲▼ buttons to select the “Lock” function. Confirm the command by pressing the OK button. You are now prompted to enter the PIN code (factory default setting: 0000).

The channel you previously selected is now shown with a padlock to its right. In future this channel can be viewed only by entering the four-digit PIN code.
This function can be restored again using the edit menu (select: “Unlock”).

COPY CHANNELS TO THE FAVOURITES LIST

Use the ▲▼ buttons to select the channel to be copied from the current channel list. Press the ● button to open the edit menu and use the ▲▼ buttons to select the “To Favorite” function. Use the ◄► buttons to select the favourites list to which the channel is to be copied. The channel is retained within the overall list. Confirm the command by pressing the OK button.

The channel you previously selected is now shown with an “F” and a yellow field in the channel list. The “F” shows that it is a favourite channel; the black dot in the yellow field shows in which of the eight favourites lists the channel can be found.

See the item “Editing Favourite Lists” for information on how to delete a channel from a favourite list.

START BLOCKSELECTION (HIGHLIGHTING SEVERAL CHANNELS)

Use the ▲▼ buttons to select the channel from which you want to highlight further channels. You can only select channels that are listed in succession in the channel list you have selected. Press the ● button to open the edit menu and use the ▲▼ buttons to select the “Start Blockselection” function. Press the OK button to confirm Use the ▲▼ buttons to highlight the desired channels, starting from the previously highlighted channel and working upwards or downwards. The highlighted channels will be highlighted in yellow and marked with a tick on the left. When you have highlighted the channels that you wish to select, press the ● button to open the edit menu once again and use the ▲▼ buttons to select the desired function (“Move”, “Delete”, “Skip”, “Lock” or “To Favorite“). Press the OK button to confirm

The selected function can now be used in the same way as described for the respective items in this section for a single channel.

EDIT CHANNEL LIST

EDIT FAVOURITES LISTS

When you have selected the favourites list to be edited (called up using the FAV (red) button and selected using the ◄◄ ►► buttons), press the ● (red dot) button to open the edit menu.
You have the following edit options:

- **Remove from favourites list:**
  The channel will be removed from the favourites list
- **Lock:**
  Channel can be viewed only by entering a PIN
- **Rename favourites list:**
  The Favourites List can be renamed
- **Start Blockselection:**
  Several channels can be selected at the same time and edited together

REMOVE FROM FAVOURITES LIST

Use the ▲▼ buttons to select the channel to be removed from the favourites list you have selected. Press the ● button to open the edit menu and use the ▲▼ buttons to select the “Remove from Favourites List” function. Confirm the command by pressing the OK button.

The channel you previously selected is now removed from the favourites list (but not deleted from the overall list).

EDIT CHANNEL LIST

LOCK CHANNELS

Use the ▲▼ buttons to select the channel to be blocked in the favourites list you have selected. Press the ● button to open the edit menu and use the ▲▼ buttons to select the “Lock” function. Confirm the command by pressing the OK button. You are now prompted to enter the PIN code (factory default setting: 0000).

The channel you previously selected is now shown with a padlock to its right. In future this channel can be viewed only by entering the four-digit PIN code.
The channel is also locked on all other channel lists. You need not additionally lock the channel in the other channel lists.

This function can be restored again using the edit menu (select: “Unlock”).

RENAME FAVOURITES LIST

Use the ◄► buttons to select the favourites list to be renamed. Press the ● button to open the edit menu and use the ▲▼ buttons to select the “Rename Favourites List” function. Confirm the command by pressing the OK button. A keypad will now be displayed with which you can enter the desired name alphanumerically using the numeric pad on the remote control. See also the section “Operating Instructions”, “Alphanumeric Entries”).

START BLOCKSELECTION (HIGHLIGHTING SEVERAL CHANNELS)

Use the ▲▼ buttons to select the channel starting from which you want to highlight further channels. You can only select channels that are listed in succession in your selected favourite list. Press the ● button to open the edit menu and use the ▲▼ buttons to select the “Start Blockselection” function. Press the OK button to confirm Now use the ▲▼ buttons to highlight the desired channels, starting from the previously highlighted channel and working upwards or downwards. The highlighted channels will be highlighted in yellow and marked with a tick on the left. When you have highlighted the channels that you wish to select, press the ● button to open the edit menu once again and use the ▲▼ buttons to select the desired function (“Remove from Favourites List”, or “Unlock”). Confirm with the OK button.

The selected function can now be used in the same way as described for the respective items in this section for a single channel.

SEARCH CHANNELS (CHANNEL SEARCH)

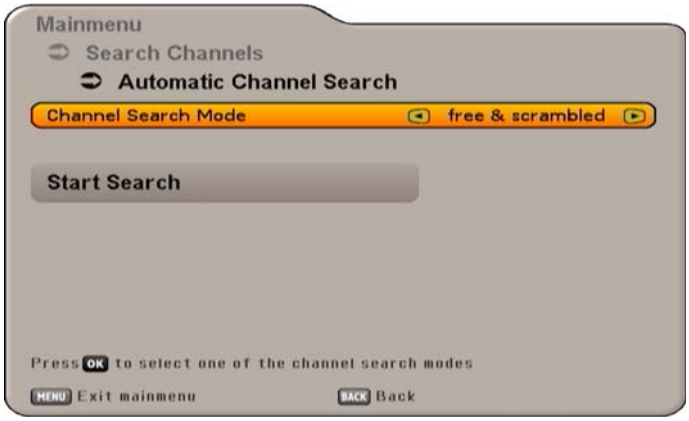
Select the “Search Channels” menu using the MENU button, the ▲▼ buttons in the main menu and OK.

Also note the bars at the bottom of the on-screen display! These provide information on what to do next.

You have three options for a channel search:
- Automatic Channel Search - all frequencies (channels) are searched
- Manual Channel Search - only the selected frequency (channel) is searched
- Search with Service ID -
  Search for a specific channel using its service ID

Use the ▲▼ buttons to select the desired type of search and confirm your selection using the OK button.

AUTOMATIC (CHANNEL) SEARCH



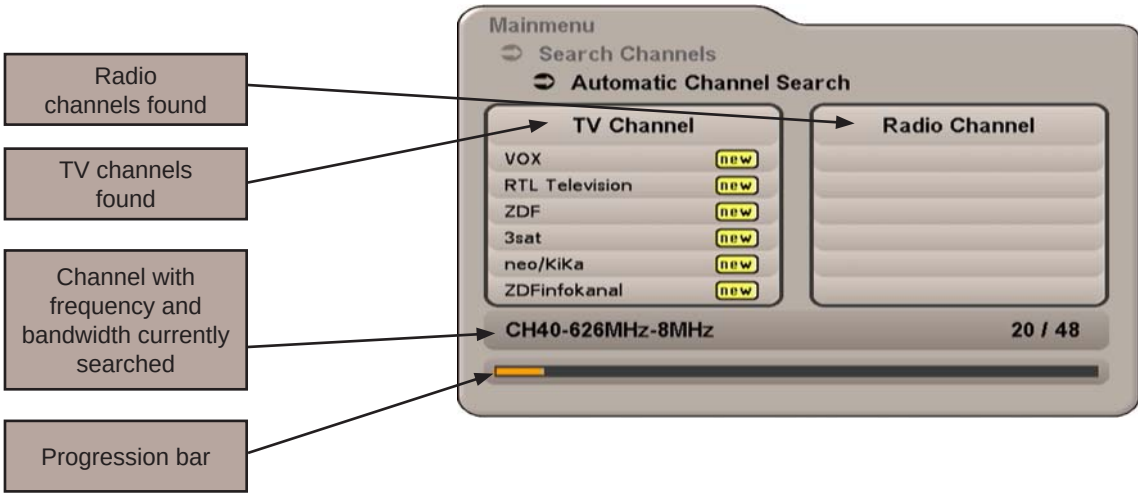
The ▲▼ buttons allow you to select different sets of parameters for the search.

SEARCH CHANNELS (CHANNEL SEARCH)

Channel Search Mode

Use the ◄ ► buttons to select whether you wish to search “free and encrypted” or “only free” channels.

When you have made your setting, use the ▲ ▼ buttons to select “Start Search” and press the OK button to start searching. You can cancel the search at any time by pressing the BACK button. During the search you will see the following message (example):



Newly found channels are identified with the designation “New” after the channel name. After completion of the search, you will see the following message (example):

SEARCH CHANNELS (CHANNEL SEARCH)

Press the OK button. You will be asked whether you wish to save the changes or not. Use the ▲▼ buttons to make the selection and confirm with the OK button. If you select “Yes, save changes”, the newly found channels will be added to the end of the channel list. Then press the BACK button to exit the menu. The channel list is called up on to the TV screen by pressing the OK button (see also section “On-Screen Displays” “Channel List TV/Radio”).

After a search (of whatever type) the receiver shows all newly found channels in the channel list under the heading “New Channels”. You will find this heading in the channel list at the end of the green overall list (select using the ◄◄ ►► buttons).

MANUAL (CHANNEL) SEARCH

The ▲▼ buttons allow you to select different sets of parameters for the search.

Frequency (channel)

Using the ◄► buttons or the keypad, select the frequency (channel) to be searched. At the bottom right of the screen display, the receiver shows the current signal strength and signal quality of the selected frequency (channel). Press the ▼ button to move to the next selection item.

Band Width

Use the ◄► buttons to select the correct bandwidth. At the bottom right of the screen display, the receiver shows the current signal strength and signal quality for your selection.

SEARCH CHANNELS (CHANNEL SEARCH)

Press the ▼ button to move to the next selection item.

Channel Search Mode

Use the ◄ ► buttons to select whether you wish to search “free and encrypted” or “only free” channels.

Press the ▼ button to move to the next selection item.

Network Search

Use the ◄ ► buttons (On/Off) to select whether a network search should be performed. If you set the network search to “Off”, only the frequency you previously selected will be searched for new as yet unlisted channels.
If you set the network search to “On”, the frequencies (channels) network enables additional frequencies (channels) that have not yet been saved to be located. They are then stored and searched for new channels in the same way as the existing frequencies (channels). However, this will only work if this service is available from your regional DVB-T network.

When you have made your settings, use the ▲ ▼ buttons to select “Start Search” and press the OK button to start searching. You can cancel the search at any time by pressing the BACK button.

During the search you will see a display that shows you the progress of the search and the channels found so far. Newly found channels are identified with the designation “New” after the channel name.

After completion of the search, you will see the following message (example):

SEARCH CHANNELS (CHANNEL SEARCH)

Press the OK button. You will be asked whether you wish to save the changes or not. Use the ▲▼ buttons to make the selection and confirm the selection with the OK button. If you select “Yes, save changes”, the newly found channels will be added to the end of the channel list. Then press the BACK button to exit the menu. The channel list is called up on to the TV screen by pressing the OK button (see also section “On-Screen Displays” “Channel List TV/Radio”).

SEARCH WITH SERVICE ID

The ▲▼ buttons allow you to select different sets of parameters for the search.

Frequency (channel)

Using the ◄► buttons or the keypad, select the frequency (channel) to be searched. At the bottom right of the screen display, the receiver shows the current signal strength and signal quality of the selected frequency (channel). Press the ▼ button to move to the next selection item.

Press the ▼ button to move to the next selection item.

Band Width

Use the ◄► buttons or the numeric pad to select the correct bandwidth. At the bottom right of the screen display, the receiver shows the current signal strength and signal quality for your selection.

Press the ▼ button to move to the next selection item.

Service ID

Using the ◄► buttons or the keypad, enter here the service ID of the channel being sought.

SEARCH CHANNELS (CHANNEL SEARCH)

When you have made your settings, use the ▲▼ buttons to select “Start Search” and press the OK button to start searching. You can cancel the search at any time by pressing the BACK button.

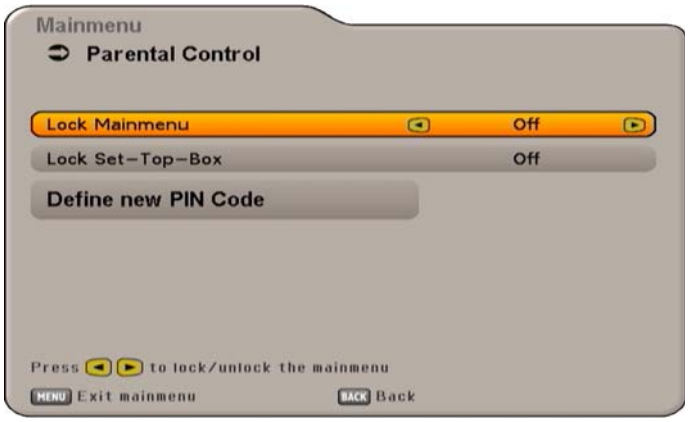
During the search you will see a display that shows you the progress of the search.

After completion of the search you will see the same message irrespective of whether the search was automatic or manual.

Press the OK button. You will be asked whether you wish to save the changes or not. Use the ▲▼ buttons to make the selection and confirm the selection with the OK button. If you select “Yes, save changes”, the newly found channel will be added to the end of the channel list. Then press the BACK button to exit the menu. The channel list is called up on to the TV screen by pressing the OK button (see also section “On-Screen Displays” “Channel List TV/Radio”).

PARENTAL CONTROL

Select the “Parental Control” menu using the menu button MENU, the ▲▼ buttons on the main menu and OK. You are now prompted to enter the PIN code (factory default setting: 0000). After entering the PIN using the numeric keypad you are shown the following display:



Also note the bars at the bottom of the on-screen display! These provide information on what to do next.

Select the parameters to be changed using the ▲▼ buttons.

LOCK MAINMENU

Use the ◄► buttons (On/Off) to select whether the main menu should be locked. If the menu is locked, changes can be made only by entering the four-digit PIN code.

LOCK SET-TOP-BOX

Use the ◄► buttons (On/Off) to select whether the receiver should be locked. If the receiver is locked, it can be operated only by entering the four-digit PIN code after it has been switched on (factory setting: 0000).

Press the BACK button to exit the menu again.

PARENTAL CONTROL

DEFINE NEW PIN CODE

Press OK to replace the old PIN with a new one. Enter the new (four-digit) PIN. For security you must repeat the new PIN code once again.

Confirm the change of PIN code by pressing the OK button.

Keep your PIN code in a safe place, so that you always have access to your channels should you ever forget it.

If you have forgotten your PIN code, you must contact your dealer, who will be able to unlock your receiver for you.

SETTINGS

The selected menus, sub-menus and items, as well as the parameters to be set, are each marked in colour. The menus are largely self-explanatory.

Note the bar at the bottom of the on-screen display. These provide information on what to do next.

Select the “Settings” menu using the MENU button, the ▲ ▼ buttons in the main menu and OK.

The individual submenus are selected using the ▲ ▼ buttons and called up using the OK button.

FIRST INSTALLATION

See “First Installation” section.

SETTINGS

REGION

Country

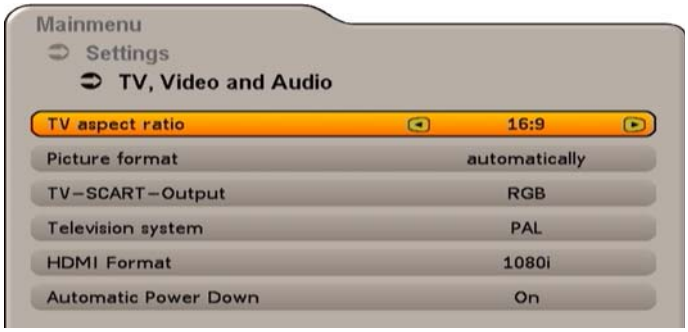
Use the ◄ ► buttons to select the desired country.

Use the ▲ ▼ buttons to switch to “Logical Channel Number!”.

Logical Channel Number

Use the ◄ ► buttons (On/Off) to select whether the receiver should sort the channels found during the search into a channel list for the country you selected above.

TV SETTINGS (TV, VIDEO AND AUDIO)



Use the ▲ ▼ buttons to select the further options. If there is another sub-menu layer, press the OK button to open it. If there are no more sub-menus, make the settings using the ✥ or numeric pad.

Press the BACK button to save your settings and return to the previous menu.

Press the MENU button to return directly to the TV picture, the changes will also be saved.

TV ASPECT RATIO

Here you can use the ◄ ► buttons to select the picture format for your TV. Either

4:3 or
16:9 format.

SETTINGS

PICTURE FORMAT

Use the ◄ ► buttons here to select the type of screen display.

For TV format 4:3: “Pan & Scan” or “Letterbox”
For TV format 16:9: “automatically” or “always 16:9”

TV-SCART-OUTPUT

Here you can use the ◄ ► buttons to select the type of video signal at the TV Scart socket. Select the signal that your TV set can process. **When doing this, refer to the operating instructions for your TV set!**

- CVBS – Colour Video Baseband Signal or
- RGB – Red/Green/Blue signal

TELEVISION SYSTEM

Here you can use the ◄ ► buttons to specify whether your TV set is a

- PAL or
- NTSC set.

HDMI FORMAT

Here you can use the ◄ ► buttons to set the picture format to be transmitted to your TV set via HDMI.

Available options: Auto (automatic format choice), 576p, 720p or 1080i

AUTOMATIC POWER DOWN

Here you can use the ◄ ► buttons to set whether the automatic stand-by circuit should be activated after three hours (“On”) or deactivated (“Off”). When this function is activated, after three hours during which no buttons are pressed on the receiver remote control, you will see the following display:

Unless a button on the receiver remote control is pressed within two minutes, after two minutes the receiver will switch automatically into stand-by mode.
However you can switch the receiver back into active mode at any time by pressing the stand-by button (on/off).

SETTINGS

SUIT SCREEN MENU

FUNCTIONAL RANGE

Here you can configure the functional scope of your receiver. You can choose between “Complete”, “Simple” and “Medium”. The following table shows which functions are available at each configuration step.

	(red) button	(yellow) button	(blue) button	button	button
High	Select favorites	Select options	TV/Radio	AV changeover	Channel list
Low	Not assigned	Not assigned	Not assigned	Not assigned	Programme Guide
Normal	Select favorites	Select options	TV/Radio	Not assigned	Programme Guide

CHANNEL OSD DURATION

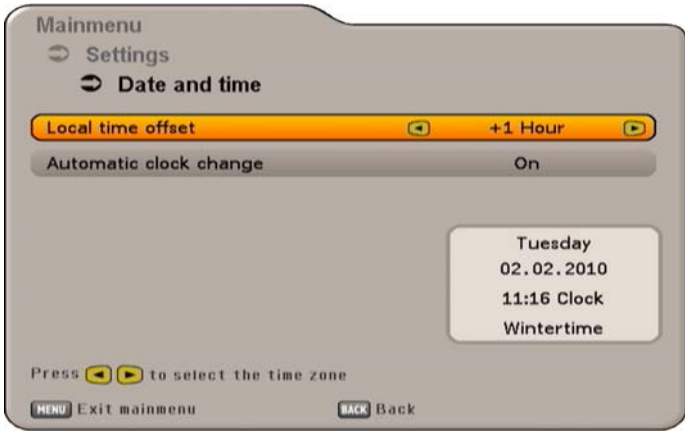
Use the buttons to select the time after which you want the on-screen channel message display to be automatically cancelled. The selections available are “Off”, 1, 2, 3, 4, 5 or 6 Seconds.

ADJUST MENU ON TV

Press the button to align the on-screen displays on the TV screen. Now you can use the cursor buttons () to determine the position of the on-screen display. When you have achieved the desired position, press the button to fix the desired position.

SETTINGS

DATE AND TIME



Local time offset

Use the ◄ ► buttons to set the time zone variation from UTC (formerly GMT) (e.g. for Germany +1 hour).

Use the ▲ ▼ buttons to switch to the “Automatic clock change” field.

Automatic clock change

Use the ◄ ► buttons to select whether the receiver should automatically change over to and from summer and winter time. If “On” is selected, the receiver automatically sets itself to the right time. If “Off” is selected, the field for manual selection of summer and winter time is displayed below.

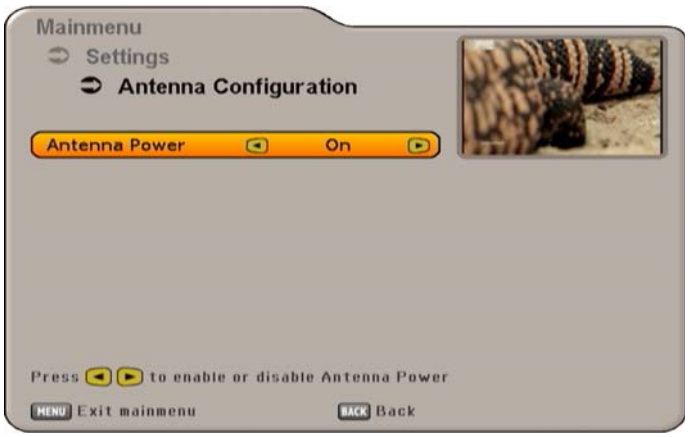
The ◄ ► buttons are also used to perform the setting.

Press the BACK button to exit the menu again.

ANTENNA CONFIGURATION

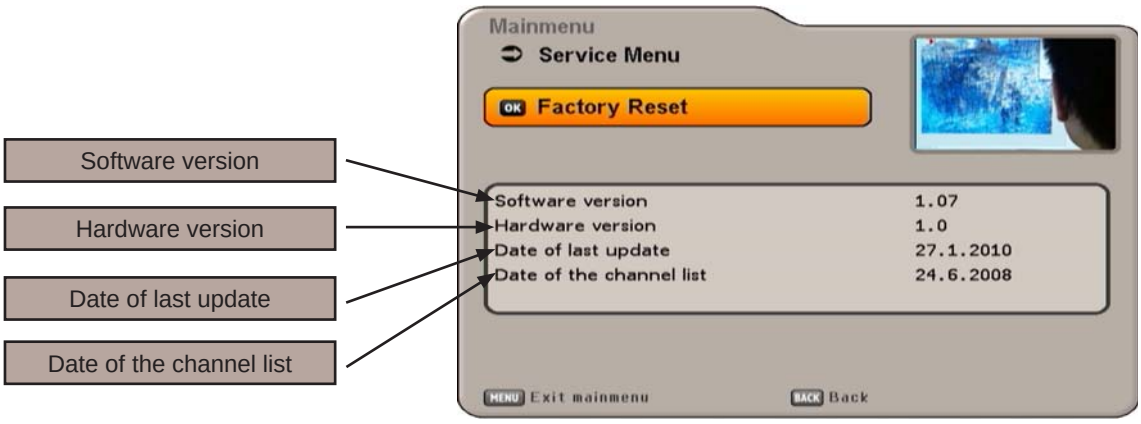
Using the ◄ ► buttons, select here whether the DVB-T antenna should be supplied with power from the receiver (select “On”) or the DVB-T antenna has its own dedicated power supply (select “Off”).

Press the BACK button to exit the menu again.



SERVICE MENU

Select the “Service” menu using the MENU button, the ▲▼ buttons in the main menu and OK. The following display appears:



FACTORY RESET

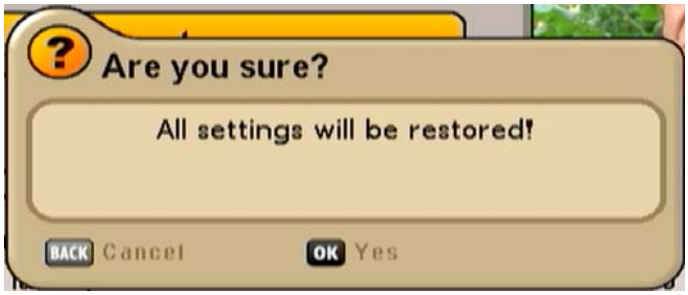
To call this up, press the OK button First the following screen appears:

Use the numeric pad to input the four-digit PIN code for your unit (factory default setting: 0000).

The following display appears:

Press the OK button to confirm loading the factory default settings.

Press the BACK if you wish to cancel the process. After pressing the OK button, the following display appears:



Press the OK button to confirm deletion of the channel list. Press the BACK button to retain the channel list and reset only the receiver settings to the factory default settings. The receiver then automatically starts the First Installation procedure.

CONNECTING UP THE VIDEO/DVR

For details of how to connect an external recorder to the PVR, refer to the connection example in the “Connection and Setup” section of this manual, and to the instructions for the external recorder.

RECORDING

In order to make a VCR recording (Record), the DVB-T receiver must be switched on or the timers must be pre-programmed (see “EPG” “Recording (timer)” section).

PLAYBACK

For VCR/DVR playback you must have previously set the UFT 676 Scart socket to “VCR mode”

(Scart changeover), using the button, so that the signal path is set up from the VCR or DVR/AUX Scart socket to the TV Scart socket.
In this setting, the picture from the external recorder is switched through to the TV set during playback.

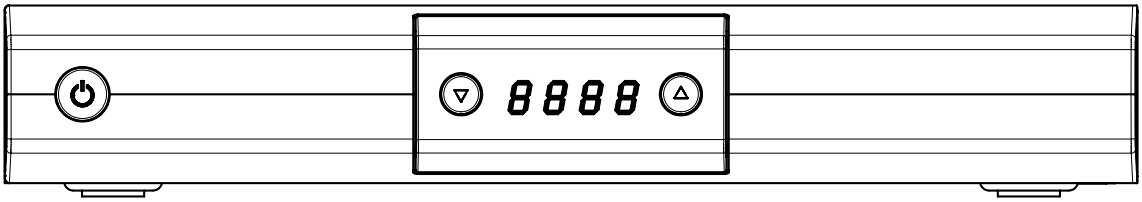
Press the button again to select “Scart>TV”. This gives priority to the Scart socket on the TV set.

Pressing the button again restores priority to the signal from the UFT 676 “Scart>Sat”.
The settings “Scart>VCR”, “Scart>TV” and “Scart>Sat” are displayed on your TV set.

USING THE FRONT PANEL

If you have misplaced your remote control, or if the batteries are flat, you can still operate your receiver from the front panel.

BACKUP OPERATION



There are two buttons on the front of the receiver:

Power switch [1] (On/Off):
The power switch allows you to switch the receiver on (operation) and off again. You have no facility to switch the receiver into stand-by mode, since no stand-by switch is provided on the front or rear of the unit.

▼ button:
The channel down button switches to the next channel down in the currently selected channel list.

▲ button:
The channel up button switches to the next channel up in the currently selected channel list.

Because there are no numbered buttons, no password/PIN-protected functions can be displayed.

[1]) The unit is not fully disconnected from the mains (see the sections “Safety Instructions - Important Instructions” and “Periods of extended absence, thunderstorms, mains socket accessibility”)

TECHNICAL APPENDIX

Type	CE	UFT 676sw
Order no./colour		20210157/black
RF properties		
Input frequency range/Loop-through range	MHz	174-230 and 470-862/47-862
Channel bandwidth	MHz	7/8, automatic switching
Modulation type		COFDM 2k, 8k
Mapping		QPSK, 16 QAM, 64 QAM
Guard interval		1/4, 1/8, 1/16, 1/32
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Input level range	dBµV	28-86 (with 16 QAM)
TV system, video		
Modulation, FEC, demultiplexer		DVB-T standard
Video resolution		CCIR 601 (720 x 576 lines), 576p, 720p, 1080i
Input data rate	MSymbol/s	5-32
Video decryption		MPEG-1 and -2 compatible
Bit rate	MBit/s	1.5-15
Frequency range	MHz	0.02-5
Output voltage	Vpp	1
S/N	dB	> 53
TV system, audio		
Audio decoding		MPEG-1 and -2, layer 1 and 2
Sampling rate	kHz	32/44.1/48
Frequency range	kHz	0.04-20
Output voltage	mVss	typically 770 (TV-Scart)
S/N	dB	> 65
Power Supply		
Power supply voltage	V_{AC}/Hz	230/50
Power consumption (max./typ. operation/standby)	W	< 6/5/0.5
Remote feeding	V/mA	5/75
Connections		
RF input/output (loop through)		IEC socket/pin
TV/VCR output		2 x Scart sockets
Video output		Cinch socket
Video/audio output (digital)		1 x HDMI
Audio output analogue/digital (electrical)		2 x Cinch socket/Cinch socket
Data interface		RJ 11 socket
General Information		
Permissible ambient temperature	°C	+5 to +40
Unit dimensions (W x H x D)/weight	mm/kg	255 x 47 x 190/1.0

TECHNICAL APPENDIX

SCART SOCKET ASSIGNMENT

Signal	Pin no.	TV	VCR/AUX
Right audio output	1	X	X
Right audio input	2		X
Left audio output	3	X	X
Audio earth	4	X	X
Blue earth	5	X	X
Audio left input	6		X
Blue signal	7	X	X
Switching voltage	8	X	X
Green earth	9	X	X
Data signal	10		
Green signal	11	X	X
Data signal	12		
Red earth	13	X	X
Data earth	14		
Red signal (C)	15	X	X
Blanking signal	16	X	X
Video earth	17	X	X
Blanking signal earth	18	X	X
Video output (FBAS/Y)	19	X	X
Video input	20		X
Connector shield	21	X	X

VHS/S-VHS SWITCHING

The Scart sockets are switchable between VHS and S-VHS. The changeover is performed by selecting “Mainmenu”, “Settings”, “TV, Video and Audio”.

VHS (RGB): The red signal is connected to terminal 15, the composite colour output to terminal 19.
For S-VHS (Y/C): The Y output is connected to pin 19, the C output to pin 15.

SHORT TECHNICAL GUIDE

Channel package

The channel package normally includes several TV and radio channels. Each programme package has a fixed assignment for the transmission frequency, for polarisation (horizontal or vertical), for the symbol rate and for the Viterbi rate or error rate.

DVB MPEG-2

DVB is the abbreviation for Digital Video Broadcasting. DVB-T refers to the transmission method (T = terrestrial). MPEG is the abbreviation for Moving Picture Experts Group, a working group that formulates internationally applicable standards for the digital compression of video and audio. MPEG-2 has become established as the standard for compression of digital TV signals. MPEG-2 works up to a data rate of 100 MB/s.

EB/NO ratio

The EB/NO ratio is a measure of the signal to noise ratio of a digital signal. The value is not identical to the C/N value familiar from analogue reception technology. At EB/NO values below 5 dB no reception is normally possible.

FEC

FEC is the abbreviation for Forward Error Correction. The FEC error rate corresponds to the Viterbi rate.

PID

The PID (Packet IDentification) number is an identification number for video signals and audio signals in the digital data stream of DVB MPEG-2 signals. The receiver uses the PID number to create a unique assignment for the video and audio data transmission. The PCR PID is the identification number for the synchronization signal. The PID-PCR is normally identical to the video PID. For programmes broadcast in multiple languages, the audio PD can be entered manually to assign a different language to the TV programme. After the PID is entered, the digital receiver automatically selects the audio data identified by the PID number from the data stream and assigns it to the video signal.

Symbol Rate

The symbol rate describes the quantity of data that is transmitted per second. The symbol rate is measured in MSymbols/s and is equal to the number of symbols received per second.

Video-Bit-Rate

The video bit rate describes the quantity of data from the digitised video signal that is transmitted per second.

Viterbi rate

The Viterbi rate (code rate, error rate) characterises the error protection used by the programme provider. The DVB standard provides the following values: 1/2 - 2/3 - 3/4 - 5/6 - 7/8

SHORT TECHNICAL GUIDE

GLOSSARY

AC 3	Output for Dolby Digital signal
Audio output	Sound output on the receiver
AV programme pos.	Preferred programme position on TV set for Scart input
CA	Conditional Access (for decoding of encrypted programmes)
CI	Internationally standardised interface for CA modules
Decoder	Decoder for Pay TV
DVB	Digital Video Broadcasting
Eb/No [dB]	Power density per unit of information
Eb/No ratio	Digital signal to noise ratio
LED display	Display on receiver
Mute	Muting of sound
OSD	On Screen Display
PAL	Analogue TV standard
Pay TV	Television channels available on subscription (e.g. Sky)
PID	See “Short technical guide”
PIN	Personal Identification Number
Receivers	Receiver
RGB	Video signal made up of three individual colour signals (red, green, blue)
Scart cable	21-pin connecting cable (e.g. receiver/TV)
Smart card	Card from Pay TV provider to decrypt its channels
Stand-by	Standby mode
S-VHS	Super Video Home System (video recorder standard)
Timer function	Clock function for pre-programmed switch on and off times
VCR connection	Connecting up the Video/DVD recorder
Viterbi rate	See “Short technical guide”

TROUBLESHOOTING

In the event of a malfunction, first check all the cable connections and operating states:

1. Receiver and TV set power plugs are connected to wall socket
2. Antenna cables are connected to the receiver input
3. Receiver and TV set correctly connected by a Scart or cinch cable
4. Audio connections are made to the Hi-Fi or Dolby Digital system as appropriate
5. Receiver and TV set (Hi-Fi/Dolby Digital system) are switched on (check power indicators)
6. Receiver is responding to remote control

A selection of troubleshooting tips is offered below.

Problem	Cause	Remedy
“No or bad signal!” warning appears on some or all channels	Antenna signal from the DVB-T antenna missing or faulty. In the “Antenna configuration” menu, “Antenna Power” is set to “Off” although an active antenna is in use (e.g. BZD 30 or BZD 40)	Consult an antenna specialist to have it checked and repaired as necessary. In the “Antenna configuration” menu, set “Antenna Power” to “On” **(only if an active antenna such as a BZD 30 or BZD 40 is in use)**
Remote control no longer responding	Receiver or remote control command set may have been unintentionally changed	Set infrared code 1 (press the buttons BACK + 1 simultaneously). Check the batteries
Wrong time being displayed	“Summer Time” setting wrong. An incorrect time was imported from the reception signal	On “Settings” - “Date and time” menu check “Summer Time Enabled” and change as necessary Switch off receiver at mains switch from current channel,e.g. ARD or ZDF, wait 10 seconds and then switch it back on
Black or blue screen, no on-screen displays	Scart connection to TV deactivated by accidentally pressing the 0 button	Keep pressing the 0 button until the TV picture reappears on the screen

SERVICE

If, despite studying this operating manual, you still have questions about getting started with the unit or using it correctly, or if unexpected problems occur, please contact your specialist dealer.

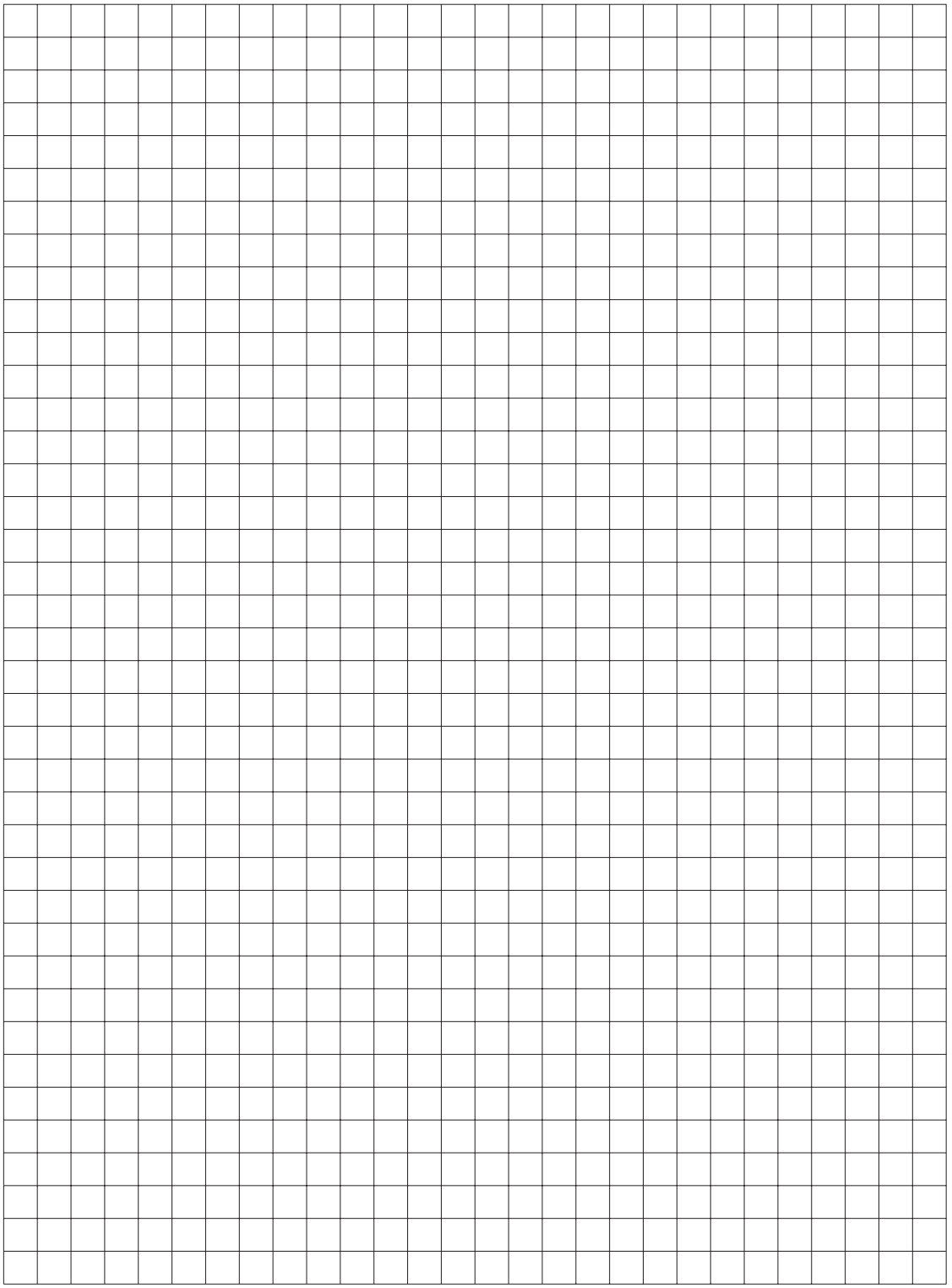
The serial number sticker for the UFT 676sw is located on the underside of the unit.

The information printed on it includes the following:

- **the exact designation (e.g. UFT 676sw)**
- **the part number and**
- **the serial number of the unit.**

You do not need this information in order to operate the unit. If however, contrary to expectations, you need to make a claim under warranty and you do not have the packaging for the receiver to hand, you can find the above information about the unit on this sticker.

FOR YOUR NOTES



936.3746/-/0210/ZWT - Technical data subject to change.

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KATHREIN
Antennen · Electronic